What is Claimed is:

1. An apparatus for transmitting inductive energy to a battery charger assembly in proximity thereof, the battery charger assembly including a microprocessor for processing data relevant to the inductive energy, the apparatus comprising:

a memory for storing computer readable instructions relevant to providing inductive energy to a battery charger assembly;

a processor unit operatively coupled to the memory;

a transmission element operatively coupled to the processor unit so as to provide the inductive energy to the battery charger assembly; and

a housing for enclosing the memory and processor unit therein.

- 2. The apparatus in accordance with claim 1, in which the memory includes authentication data for authenticating the battery charger assembly for the inductive energy transmission.
- 3. The apparatus in accordance with claim 1, further comprising a communications device for receiving and transmitting data and the communications device being operatively coupled to the transmission element.
- 4. The apparatus in accordance with claim 1, further comprising an antenna and a communications device configured to receive the computer readable instructions and configured to transmit the instructions to the antenna for wireless data communications to a battery charger assembly.
- 5. The apparatus in accordance with claim 1, in which the processor unit is configured to receive a plurality of power parameters from the battery charger assembly.
- 6. The apparatus in accordance with claim 1, in which the processor unit is configured to receive a digital security certificate from a battery charger assembly.

7. The apparatus in accordance with claim 1, further comprising a plurality of transmission elements responsive to receiving a transmission from a battery charger assembly.

- 8. An apparatus configured for receiving inductive energy, comprising:
- a memory for storing computer readable data relevant to receiving the inductive energy;
- a processor unit for processing the computer readable data;
- a coil configured for receiving inductive energy;
- a power supply operatively coupled to the processor unit and the coil; the power supply configured to output a direct current responsive to the inductive energy; and
- a connector for operatively receiving a portion of a battery pack for logical communications with the processor unit.
- 9. The apparatus in accordance with claim 8, in which the processor unit is configured to provide authentication data for inductive energy reception.
 - 10. The apparatus in accordance with claim 8, further comprising a communications device operatively coupled to the coil.
- 11. The apparatus in accordance with claim 10, in which the communications device is configured to receive the computer readable data and transmit the data to the coil.
- 12. The apparatus in accordance with claim 8, in which the processor unit is configured to receive a plurality of power parameters from the battery pack; store the power parameters in the memory; and transmit the power requirements to a power source which provides the inductive energy.
- 13. The apparatus in accordance with claim 8, in which the processor unit is configured to provide a digital certificate to a power source.

- 14. The apparatus in accordance with claim 8, in which the processor unit is configured to draw electrical power from the battery pack; and responsive to receiving an indication of inductive energy at the coil; the processor unit configured to draw electrical power via the coil.
- 15. The apparatus in accordance with claim 9, further comprising an antenna and a communications device configured to receive the computer readable data and configured to transmit the data to the antenna for wireless data communications to a power source.
- 16. A computer implemented method of providing inductive energy to a battery charger assembly, the method comprising the steps of:

at the battery charger assembly, wirelessly receiving a polling message from a source; transmitting a request for power to the source; and receiving inductive power from the source.

- 17. The method in accordance with claim 16, in which the step of transmitting includes a step of transmitting a plurality of power parameters to the source.
- 18. The method in accordance with claim 16, in which the step of transmitting includes a step of transmitting authenticating data to the source.
- 19. The method in accordance with claim 16, further including a step of converting the inductive power to a direct current responsive to the step of receiving.
- 20. The method in accordance with claim 16, further including a step of receiving power parameters from a battery pack, and storing the power parameters in a computer readable memory.
- 21. The method in accordance with claim 20, in which the step of transmitting includes a step of transmitting the power parameters to the source.

22. A computer apparatus, comprising:

a processor; and

a memory for storing computer readable instructions that, when executed by said processor, cause the computer to perform the steps of:

receiving a polling message from a source;

transmitting a request for power to the source; and

providing an indication to a battery pack of receiving inductive power from the source.

- 23. The computer apparatus in accordance with claim 22, in which the step of transmitting includes a step of transmitting power parameters to the source.
- 24. The computer apparatus in accordance with claim 22, in which the step of transmitting includes a step of transmitting authenticating data to the source.
- 25. The computer apparatus in accordance with claim 22, in which the step of transmitting includes a step of transmitting authenticating data to the source.
- 26. The computer apparatus in accordance with claim 22, in further including a step of receiving computer readable power data from a battery pack.
- 27. The computer apparatus in accordance with claim 22, in further including a step, switching power state from battery power to inductive power, responsive to the step of providing an indication.